BRUHAT BENGALURU MAHANAGARA PALIKE, YELAHANKA DIVISION

Bruhat Bengaluru Mahanagara Palike

Name of work: Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division" Est cost Rs. 200 Lakhs

EMB

"THIRD & FINAL BILL "

BRUHAT BENGALURU MAHANAGARA PALIKE, YELAHANKA DIVISION

Bruhat Bengaluru Mahanagara Palike

Name of work: Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division" Est cost Rs. 200 Lakhs

PRE-MEASUREMENT SHEETS

"THIRD & FINAL BILL "

(1)

Name of work:" Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division" Est cost Rs. 200 Lakhs

Date of Pre-Measurement : 18/7/22

Item No	Discription of Item	Unit/ No	Detailed Measurements Length	Breadth			Depth	Qty
13	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. Clause 502 of MORTH V revision. (P No. 158, INo. 21.6)							
		SQM						
	Asphalt							
	Sai Orchard Layout							
	1st Cross Road							
	Ch:0.00m to 30.00m	1	30.00	7.10	+ 2	7.10		213.00
	CH: 30.00 to 60.00m	1	30.00	7.10	+ 2	7.10		213.00
	CH: 60.00 to 90.00 m	1	30.00	7.10	+ 2	7.10		213.00
	CH: 90.00 to 110.00 m	1	20.00	7.10	+ 2	7.50		146.00
	2nd Cross Road							
	Ch:0.00m to 30.00m	1	30.00	5.30	+ 2	5.30		159.00
	Ch:0.00m to 36.50m	1	6.50	5.30	+ 2	5.30		34.45
	CH: 36.50 to 49.50m	1	13.00	4.40	+ 2	4.40		57.20
	CH: 49.50 to 67.50 m	1	18.00	5.20	+ 2	5.20		93.60
	CH: 67.50 to 85.50 m	1	18.00	4.50	+ 2	4.50		81.00
	CH: 85.50 to 109.50 m	1	24.00	5.50	+ 2	5.50		132.00
	3rd Cross Road From 2nd Main Road							
	Ch:0.00m to 30.00m	1	30.00	6.20	+ 2	6.60		192.00
	CH: 30.00 to 60.00m	1	30.00	6.60	+ 2	6.60		198.00
	CH: 60.00 to 90.00 m	1	30.00	6.60	+ 2	7.20		207.00
	CH: 90.00 to 110.00 m	1	20.00	7.20	+ 2	7.20		144.00
	2nd Main Road From Vaderahalli Road End							
	Ch:0.00m to 28.00m	1	28.00	6.90	+ 2	6.90		193.20
	CH: 28.00 to 58.00m	1	30.00	6.00	+ 2	6.70		190.50
	CH: 58.00 to 65.00 m	1	7.00	6.90	+ 2	7.10		49.00

SHRIYA CONSTRUCTION AND CONSULTANCY

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	CH: 65.00 to 81.50 m	1	16.50	6.30	+ 6.50 / 2			105.60
	CH:81.50to 109.00 m	1	27.50	6.90	+ 6.90 / 2			189.75
	CH:109.00 to 139.00 m	1	30.00	5.80	+ 5.50 / 2			169.50
	CH:139.00 to 148.50 m	1	9.50	5.50	+ 5.50 / 2			52.25
	1st Main Road From Last Chinage							
	Ch:0.00m to 27.00m		27.00	6.70	+ 6.40 / 2			176.85
	CH: 27.00 to 53.00m		26.00	6.40	+ 7.00 / 2			174.20
	CH: 53.00 to 83.00m	1	30.00	6.30	+ 6.80 / 2			196.30
	CH: 83.00 to 103.00 m	1	20.00	6.80	+ 6.80 / 2			136.00
							Present Qty	3716.60

Contractor

SHRIYA CONSTRUCTION AND CONSULTANCY PMC

Assistant Engineer

Asst Executive Engineer

Name of work:" Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division" Est cost Rs. 200 Lakhs

Date of Pre-Measurement : 18/7/22

Detailed Measurements

Item No	Discription of Item	Unit/ No	Length	Breadth			Depth	Qty
14	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications. Clause 503 of MORTH V revision.							
		SQM						
	Asphalt							
	Sai Orchard Layout							
	1st Cross Road							
	Ch:0.00m to 30.00m	1	30.00	7.10	+	7.10		213.00
				2				
	CH: 30.00 to 60.00m	1	30.00	7.10	+	7.10		213.00
				2				
	CH: 60.00 to 90.00 m	1	30.00	7.10	+	7.10		213.00
				2				
	CH: 90.00 to 110.00 m	1	20.00	7.10	+	7.50		146.00
				2				
	2nd Cross Road							
	Ch:0.00m to 30.00m	1	30.00	5.30	+	5.30		159.00
				2				
	Ch:0.00m to 36.50m	1	6.50	5.30	+	5.30		34.45
				2				
	CH: 36.50 to 49.50m	1	13.00	4.40	+	4.40		57.20
				2				
	CH: 49.50 to 67.50 m	1	18.00	5.20	+	5.20		93.60
				2				
	CH: 67.50 to 85.50 m	1	18.00	4.50	+	4.50		81.00
				2				
	CH: 85.50 to 109.50 m	1	24.00	5.50	+	5.50		132.00
				2				
	3rd Cross Road From 2nd Main Road							
	Ch:0.00m to 30.00m	1	30.00	6.20	+	6.60		192.00
				2				
	CH: 30.00 to 60.00m	1	30.00	6.60	+	6.60		198.00
				2				
	CH: 60.00 to 90.00 m	1	30.00	6.60	+	7.20		207.00
				2				
	CH: 90.00 to 110.00 m	1	20.00	7.20	+	7.20		144.00
				2				

SHRIYA CONSTRUCTION AND CONSULTANCY

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	2nd Main Road From Vaderahalli Road End							
	Ch:0.00m to 28.00m	1	28.00	6.90	+	6.90		193.20
					2			
	CH: 28.00 to 58.00m	1	30.00	6.00	+	6.70		190.50
					2			
	CH: 58.00 to 65.00 m	1	7.00	6.90	+	7.10		49.00
					2			
	CH: 65.00 to 81.50 m	1	16.50	6.30	+	6.50		105.60
					2			
	CH:81.50to 109.00 m	1	27.50	6.90	+	6.90		189.75
					2			
	CH:109.00 to 139.00 m	1	30.00	5.80	+	5.50		169.50
					2			
	CH:139.00 to 148.50 m	1	9.50	5.50	+	5.50		52.25
					2			
	1st Main Road From Last Chinage							
	Ch:0.00m to 27.00m	1	27.00	6.70	+	6.40		176.85
					2			
	CH: 27.00 to 53.00m	1	26.00	6.40	+	7.00		174.20
					2			
	CH: 53.00 to 83.00 m	1	30.00	6.30	+	6.80		196.50
					2			
	CH: 83.00 to 103.00 m	1	20.00	6.80	+	6.80		136.00
					2			
							Present Qty	3716.60

Contractor

PMC

SHRIYA CONSTRUCTION AND CONSULTANCY

Assistant Engineer

Asst. Executive Engineer

Name of work:" Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division" Est cost Rs. 200 Lakhs

Date of Pre-Measurement : 18/7/22

Detailed Measurements

Item No	Discription of Item	Unit/ No	Length	Breadth			Depth	Qty
15	KSRRB M500-11. Providing and laying dense graded bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formulae for base/ binding course including loadng of aggrigated with FE loader, hot mixing of stone aggregates and bitumen in Hot mix plant transporting the mixed material in tipper to the required level and grade, rolling by power roller to achieve desired, but excluding cost of primer / tack coat including lead, lift and cost of all materials, lobour HOM, of machinaries complete as per specifications MORTH ch5 using 40/60 TPH capacity HMP with Mechanical paver Grll (50mm -75mm) with 3.4% VG-30 bitumen (P NO> 158/ Item No-21.11.6)							
		SQM						
	Asphalt							
	Sai Orchard Layout							
	1st Cross Road							
	Ch:0.00m to 30.00m	1	30.00	7.10 / 2	+	7.10	0.05	10.65
	CH: 30.00 to 60.00m	1	30.00	7.10 / 2	+	7.10	0.05	10.65
	CH: 60.00 to 90.00 m	1	30.00	7.10 / 2	+	7.10	0.05	10.65
	CH: 90.00 to 110.00 m	1	20.00	7.10 / 2	+	7.50	0.05	7.30
	2nd Cross Road							
	Ch:0.00m to 30.00m	1	30.00	5.30 / 2	+	5.30	0.05	7.95
	Ch:0.00m to 36.50m	1	6.50	5.30 / 2	+	5.30	0.05	1.72
	CH: 36.50 to 49.50m	1	13.00	4.40 / 2	+	4.40	0.05	2.86
	CH: 49.50 to 67.50 m	1	18.00	5.20 / 2	+	5.20	0.05	4.68
	CH: 67.50 to 85.50 m	1	18.00	4.50 / 2	+	4.50	0.05	4.05
	CH: 85.50 to 109.50 m	1	24.00	5.50 / 2	+	5.50	0.05	6.60
	3rd Cross Road From 2nd Main Road							
	Ch:0.00m to 30.00m	1	30.00	6.20 / 2	+	6.60	0.05	9.60
	CH: 30.00 to 60.00m	1	30.00	6.60 / 2	+	6.60	0.05	9.90
	CH: 60.00 to 90.00 m	1	30.00	6.60 / 2	+	7.20	0.05	10.35

SHRIYA CONSTRUCTION AND CONSULTANCY

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CH: 90.00 to 110.00 m	1	20.00	7.20	+	7.20	0.05	7.20
				2			
2nd Main Road From Vaderahalli Road End							
Ch:0.00m to 28.00m	1	28.00	6.90	+	6.90	0.05	9.66
				2			
CH: 28.00 to 58.00m	1	30.00	6.00	+	6.70	0.05	9.53
				2			
CH: 58.00 to 65.00 m	1	7.00	6.90	+	7.10	0.05	2.45
				2			
CH: 65.00 to 81.50 m	1	16.50	6.30	+	6.50	0.05	5.28
				2			
CH:81.50to 109.00 m	1	27.50	6.90	+	6.90	0.05	9.49
				2			
CH:109.00 to 139.00 m	1	30.00	5.80	+	5.50	0.05	8.48
				2			
CH:139.00 to 148.50 m	1	9.50	5.50	+	5.50	0.05	2.61
				2			
1st Main Road From Last Chinage							
Ch:0.00m to 27.00m	1	27.00	6.70	+	6.40	0.05	8.84
				2			
CH: 27.00 to 53.00m	1	26.00	6.40	+	7.00	0.05	8.71
				2			
CH: 53.00 to 83.00 m	1	30.00	6.30	+	6.80	0.05	9.83
				2			
CH: 83.00 to 103.00 m	1	20.00	6.80	+	6.80	0.05	6.80
				2			
						Present Qty	**185.83**

Contractor PMC Assistant Engineer Asst. Executive Engineer

SHRIYA CONSTRUCTION AND CONSULTANCY

BRUHAT BENGALURU MAHANAGARA PALIKE, YELAHANKA DIVISION

Bruhat Bengaluru Mahanagara Palike

Name of work: Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division" Est cost Rs. 200 Lakhs

MEASUREMENT SHEETS

"THIRD & FINAL BILL "

(7)

3rd & Final Bill

Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division" Est cost Rs. 200 Lakhs

Work Order No.: BBMP/EE/YNK D/W.O/193/2019-20, Dated : 10.11.2019
Job code: 003-20-000076
Estimate cost: 200 Lakhs
Name Of contractor: M/s KRIDL Bangalore

Measurements

Item No	Discription of Item	Unit	No	Length	Breadth	Depth	Qty	Rate	Amount
13	KSRRB M500-6: Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. Clause 502 of MORTH V revision. (P No. 158, INo. 21.6)								
	Pre Measurements recorded in Vide Excel Sheet page no (1) - (2)	Sqm					3716.60	33.92	1,26,067.00
14	KSRRB 500-7: Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications. Clause 503 of MORTH V revision								
	Pre Measurements recorded in Vide Excel Sheet page no (3) - (4)	Sqm					3716.60	12.72	47,275.00
15	KSRRB M500-11: Providing and laying dense graded bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formulae for base/ binding course including loading of aggrigated with FE loader, hot mixing of stone aggregates and bitumen in Hot mix plant transporting the mixed material in tipper to the required level and grade, rolling by power roller to achieve desired, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour HOM, of machinaries complete as per specifications MORTH ch5, using 40/60 TPH capacity HMP with Mechanical paver Grll (50mm -75mm) with 3.4% VG-30 bitumen (P NO> 158/ Item No-21.11.6)								
	Pre Measurements recorded in Vide Excel Sheet page no (5) - (6)	CUM					185.83	5962.5	11,08,011.00

Contractor

SHRIYA CONSTRUCTION AND CONSULTANCY

Assistant Engineer

Asst. Executive Engineer

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Name of work:" Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in w... ...ka Satellite Town sub Division" Est cost Rs. 200 Lakhs

Date of Pre-Measurement : 19/07/2022

Detailed Measurements

Item No	Discription of Item	Unit/ No	Length	Breadth	Depth	Qty	Rate	Amount
16	Providing and laying bituminous concrete 40mm thick with 100-200 TPH batch type asphalt producing an average output of75 tonnes per using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6%of mix and filler, transporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH V specification clause No 500.9 complete in all respects as per specifications. MORTH specification 30-45mm compacted thickness (grading II) with 6% Bitumen 80/100 No. 161/Item No. 21.22.6PWD SR 2018-19							
		SQM						
	Asphalt							
	Sai Orchard Layout							
	1st Cross Road							
	Ch:0.00m to 30.00m	1	30.00	7.10 + 7.10 / 2	0.04	8.52		
	CH 30.00 to 60.00m	1	30.00	7.10 + 7.10 / 2	0.04	8.52		
	CH 60.00 to 90.00 m	1	30.00	7.10 + 7.10 / 2	0.04	8.52		
	CH 90.00 to 110.00 m	1	20.00	7.10 + 7.50 / 2	0.04	5.84		
	2nd Cross Road							
	Ch:0.00m to 30.00m	1	30.00	5.30 + 5.30 / 2	0.04	6.36		
	Ch:0.00m to 36.50m	1	6.50	5.30 + 5.30 / 2	0.04	1.38		
	CH 36.50 to 49.50m	1	13.00	4.40 + 4.40 / 2	0.04	2.29		
	CH 49.50 to 67.50 m	1	18.00	5.20 + 5.20 / 2	0.04	3.74		
	CH 67.50 to 85.50 m	1	18.00	4.50 + 4.50 / 2	0.04	3.24		
	CH 85.50 to 109.50 m	1	24.00	5.50 + 5.50 / 2	0.04	5.28		
	3rd Cross Road From 2nd Main Road							
	Ch:0.00m to 30.00m	1	30.00	6.20 + 6.60 / 2	0.04	7.68		
	CH 30.00 to 60.00	1	30.00	6.60 + 6.60 / 2	0.04	7.92		
	CH 60.00 to 90.00 m	1	30.00	6.60 + 7.20 / 2	0.04	8.28		
	CH 90.00 to 110.00 m	1	20.00	7.20 + 7.20 / 2	0.04	5.76		
	2nd Main Road From Vaderahalli Road End							
	Ch:0.00m to 28.00m	1	28.00	6.90 + 6.90 / 2	0.04	7.73		
	CH 28.00 to 58.00m	1	30.00	6.00 + 6.70 / 2	0.04	7.62		
	CH 58.00 to 65.00 m	1	7.00	6.90 + 7.10 / 2	0.04	1.96		

09/11/2022

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SHRIYA CONSTRUCTION AND CONSULTANCY

CH 65.00 to 81.50 m	1	16.50	6.30	+	6.50	0.04	4.22		
				2					
CH 81.50to 109.00 m	1	27.50	6.90	+	6.90	0.04	7.59		
				2					
CH 109.00 to 139.00 m	1	30.00	5.80	+	5.50	0.04	6.78		
				2					
CH 139.00 to 148.50 m	1	9.50	5.50	+	5.50	0.04	2.09		
				2					
1st Main Road From Last Chinage									
Ch 0.00m to 27.00m	1	27.00	6.70	+	6.40	0.04	7.07		
				2					
CH 27.00 to 53.00m	1	26.00	6.40	+	7.00	0.04	6.97		
				2					
CH 53.00 to 83.00 m	1	30.00	6.30	+	6.80	0.04	7.86		
				2					
CH 83.00 to 103.00	1	20.00	6.80	+	6.80	0.04	5.44		
				2					
						Present Qty	148.66	8622.04	1281786.95

Contractor PMC Assistant Engineer Asst Executive Engineer

SHRIYA CONSTRUCTION AND CONSULTANCY

Name of work:" Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division" Est cost Rs. 200 Lakhs

Date of Pre-Measurement : 27/07/2022

Detailed Measurements

Item No	Discription of Item	Unit/ No	Length	Breadth	Depth	Qty	Rate	Amount
17	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC 35 standards specified The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No 803							
		SQM						
	Asphalt							
	Sai Orchard Layout							
	1st Cross Road							
	Ch 0.00m to 30.00m	2	30.00	0.10 + 0.10 / 2		6.00		
	CH 30.00 to 60.00m	2	30.00	0.10 + 0.10 / 2		6.00		
	CH 60.00 to 90.00 m	2	30.00	0.10 + 0.10 / 2		6.00		
	CH 90.00 to 110.00 m	2	20.00	0.10 + 0.10 / 2		4.00		
	2nd Cross Road							
	Ch 0.00m to 30.00m	2	30.00	0.10 + 0.10 / 2		6.00		
	Ch 0.00m to 36.50m	2	6.50	0.10 + 0.10 / 2		1.30		
	CH 36.50 to 49.50m	2	13.00	0.10 + 0.10 / 2		2.60		
	CH 49.50 to 67.50 m	2	18.00	0.10 + 0.10 / 2		3.60		
	CH 67.50 to 85.50 m	2	18.00	0.10 + 0.10 / 2		3.60		
	CH 85.50 to 109.50 m	2	24.00	0.10 + 0.10 / 2		4.80		
	3rd Cross Road From 2nd Main Road							
	Ch 0.00m to 30.00m	2	30.00	0.10 + 0.10 / 2		6.00		
	CH 30.00 to 60.00m	2	30.00	0.10 + 0.10 / 2		6.00		
	CH 60.00 to 90.00 m	2	30.00	0.10 + 0.10 / 2		6.00		
	CH 90.00 to 110.00	2	20.00	0.10 + 0.10 / 2		4.00		
	2nd Main Road From Vaderahalli Road End							
	Ch 0.00m to 28.00m	2	28.00	0.10 + 0.10 / 2		5.60		
	CH 28.00 to 58.00m	2	30.00	0.10 + 0.10 / 2		6.00		
	CH 58.00 to 65.00 m	2	7.00	0.10 + 0.10 / 2		1.40		
	CH 65.00 to 81.50 m	2	16.50	0.10 + 0.10 / 2		3.30		
	CH.81.50to 109.00 m	2	27.50	0.10 + 0.10 / 2		5.50		

SHRIYA CONSTRUCTION AND CONSULTANCY

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	CH 109.00 to 139.00 m	2	30.00	0.10	+	0.10		6.00		
					2					
	CH 139.00 to 148.50 m	2	30.00	0.10	+	0.10		1.90		
					2					
							Present Qty	95.60	454.74	43473.14

Contractor

PMC

SHRIYA CONSTRUCTION AND CONSULTANCY

Assistant Engineer

Asst Executive Engineer

Name of work:"Consultancy services for preparation of DPR for the work of Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division" Est cost Rs. 200 Lakhs

Date of Measurement : 29/07/2022

Detailed Measurements

Item No	Discription of Item	Unit	No	Length	Breadth	Depth	Qty	Rate	Amount
18	KSRB M800-35 Suply and Installation of moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) Moulded body and reflective panels with micro prismatic lens cabable of providing total internal reflection of the light entering the lens face and shall support a load of 1600k kgs tested in accordance to specifications of category A of MORTH circular no RW/NH/33023/10-97DO III Date: 11.06.1997. The height, width and length shall not exceed 50mm, 100mm, and 102mm and with minimum reflective area of 13sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integratedcylindrical shanks, (of dia not less than 19mm and height not less than 30mm) from the body is to be a minimun of 500kgs.Fixing will be by drilling holes on the roads for the shanks to go inside without nails using epoxy resin based adhesive as per manufacturer's								
		Nos							
	Asphalt								
	Sai Orchard Layout								
	1st Cross Road		14				14.00		
	2nd Cross Road		14				14.00		
	3rd Cross Road		14				14.00		
	2nd Main Road		18				18.00		
	1st Main Road		14				14.00		
	Present Qty	NOS			Present Qty		74.00	357.22	26434.28
								TOTAL	26,33,047.00
								12% GST CHARGES	3,15,966.00
								4% KRIDL CHARGES	1,05,322.00
								GRAND TOTAL	30,54,335.00

Contractor

PMC

Assistant Engineer

Asst Executive Engineer